

CATALOGUE OF METEORITES, TEKTITES AND ASSOCIATED MATERIAL IN THE QUEENSLAND MUSEUM

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Catalogue of meteorite and related material held by the Queensland Museum lists 144 meteorites, 162 tektites and tektite bulk samples, 10 casts and 10 specimens of related material. □ Meteorites, tektites, catalogue, Tenham, Glenormiston, Thunda, Gladstone #2, Queensland Museum.

Peter Volk, Queensland Museum, PO Box 3300, South Brisbane, Queensland 4101, Australia; 2 November 1993.

Geology collections of the Queensland Museum (QM) were initiated in 1871 (Mather, 1986). However, the first meteorite accessioned was a slice of the Gibeon meteorite (D864) in 1916, and the first Queensland (Qld) meteorite the Glenormiston (D1291) in 1926. Major contributions of meteoritic material were made by the Geological Survey of Queensland (G.S.Q.) in 1979 and Mr. F.S. (Stan) Colliver in 1985.

Collection auditing by the author in 1993 has revealed a total holding of 144 meteorites, 162

tektites or hulk tektite fragment samples, 12 casts and 10 specimens of related material.

QUEENSLAND MATERIAL (Fig. 1) METEORITES

D1291

Glenormiston Meteorite

TYPE

Medium octahedrite.

MATERIAL

FIND: Glenormiston, nr Boulia, Qld (22°54'S, 138°43'E): main mass, 38.8kgs; four small pieces cut from main mass, 2.5g, 1.3g, 0.9g, 0.6g; shavings, heavily oxidised, 18.9g.

REFERENCE

Richards, (1930: 65-72, pls 3-8).

REMARKS

Purchased in 1926 from Mr. F. H. Story; sectioned for analysis; present location of the smaller part thus produced unknown.

D1592, D4465

Tenham Meteorites

TYPE

Brecciated, olivine - hypersthene chondrite.

MATERIAL

FALL: Tenham Station, nr Ingella, Queensland (25°44'S 142°57'E), 1879. [Prior (1953) recorded "Spring" but QM records suggest that the fall took place earlier in 1879. Prior may have been referring to the boreal spring].

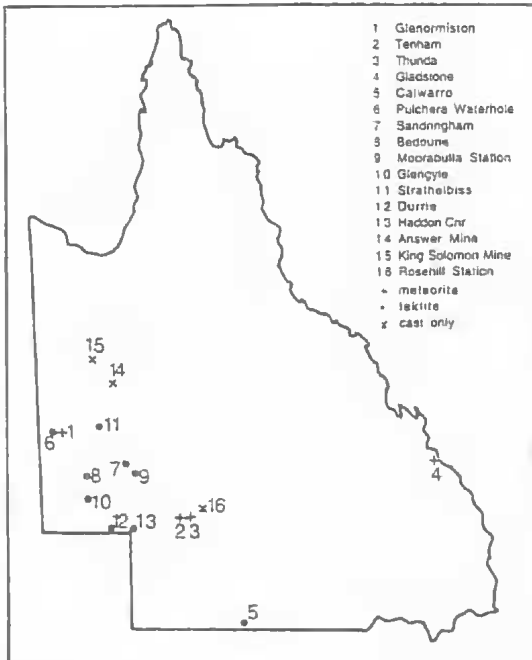


FIG. 1 Provenance of Queensland meteoric material held by the Queensland Museum.

Weights of individual stones are given below; sectioned stones (S) are noted and the weight is the remaining piece. Missing stones (M) are indicated. Numbers refer to those given by Hodge-Smith (1939, pls. 10, 11). Letters refer to a set of ten stones, registered as D4465, donated to the Queensland Museum by the Geological Survey of Queensland in 1979 which are probably part of the set of fourteen stones loaned to the Geological Survey by Miss O. A. Hammond in 1940 and recorded as unlocatable (Brooks, Simmonds & Houston, 1964).

1:2115.6; 2:1931.7; 3:639.5, S; 4:1768.8; 5:1671.0; 6:1272.8; 7:1258.6; 8:996.3; 9: M; 10: M; 11: 865.7; 12: 861.0; 13:831.2; 14:807.9; 15:762.2; 16:752.7; 17:724.8; 18:660.4; 19:612.2; 20:606.4; 21:612.0; 22: 582.3; 23:572.1; 24:603.1; 25:482.2; 26:473.7; 27:608.8; 28:316.8, S; 29:576.4; 30:491.6; 31:449.6; 32:433.9; 33:444.6; 34:407.8; 35:404.9; 36:399.1; 37:390.2; 38:375.0; 39:304.0; 40: M; 41: M; 42:353.7; 43:379.8; 44:354.2; 45:348.1; 46:352.0; 47:353.2; 48: M; 49:338.6; 50:306.9; 51:281.8; 52:262.1; 53:264.9; 54:256.7; 55:273.2; 56:276.8; 57:54.4, S; 58:243.9; 59:262.3; 60:252.6; 61:242.0; 62:235.3; 63:205.0; 64:219.4; 65:212.3; 66:217.4; 68:195.9; 69:217.3; 70:200.2; 71:200.4; 72:189.6; 73:184.2; 74:191.5; 75:196; 76:199.7; 77:198.8; 78:192.3; 79:180.4; 80:180.5; 81:184.7; 82:172.6; 83:162.0; 84:167.5; 85:159.4; 86:157.3; 87:157.8; 88:143.0; 89:163.6; 90:145.8; 91:149.8; 92:134.2; 93:132.5; 94:141.1; 95:121.6; 96:125.3; 97:122.9; 98:101.8; 99: M; 100:81.1; 101:84.4; 102:79.0; 103:88.0; 104:81.8; 105:79.8; 106:80.7; 107:87.5; 108:70.2; 109:69.2; 110:69.7; 111:74.1; 112:59.8; 113:54.8; 114:55.4; 115:59.7; 116:56.5; 117:54.9; 118:37.8; 119:48.6; 120:43.8; 121:37.2; 122:44.8; 123:24.3; 124:30.3; 125:21.9; 126:22.6; 127:14.5.
 "Hammond" Stones - 'b':476.7; 'c':416.4; 'D':252.2; 'g':169.5; 'h':129.4; 'i':104.8; 'j':89.2; 'L':81.1; 'm':55.5; 'N':56.9.

REFERENCES

Brooks, Simmonds and Houston (1964); Hodge-Smith (1939) p. 25, pls X, XI; Spencer (1937).

REMARKS

Of 127 specimens illustrated by Hodge-Smith (1939, pls 10, 11), 121 are in the QM collection. Stones 9, 10, 40, 41, 48 and 99 are missing; stones 57, 28 and 3 have each been sectioned and half of each is missing; stone 57 was sectioned by Lovering, one piece retained by him; stone 28 was sectioned and one piece sent to H.H. Nininger; no record exists of the fate of half of stone 3. Of the six missing stones, 10 and 99 were transferred to

the Geological Survey of Queensland; stones 40 and 41 were sent to either the University of Queensland or the G.S.Q. but records confuse each stone's destination; stones 48 and 9 are unaccounted for. One stone was sent to the American Museum of Natural History in exchange for a fragment of the Selma meteorite.

Other holdings of Tenham stones are in the British Museum, University of Queensland, and the Australian Museum. Total Tenham Stones in the QM collections: 131.

D1606

Gladstone Meteorite #1

TYPE

Coarsest octahedrite.

MATERIAL

FIND: Tuondon Ck, 4 miles south of Gladstone, (23°54'S, 151°15'30"E), in 1912 or 1913: 42.4g slice, heavily varnished.

REFERENCES

Richards (1930: 66-67); Hodge-Smith (1939: 18); Prior (1953: 134); Simmonds (1964: 3, pl. 3, fig. 1).

REMARKS

The main mass is in the Field Museum of Natural History, Chicago. An analysis appears in Richards (1930) and a description and a picture of this slice in Simmonds (1964). Other holdings are Australian Museum, Sydney, American Museum of Natural History Museum, New York, United States National Museum, Washington (Prior, 1953).

D5834

Thunda Meteorite

TYPE

Medium octahedrite.

MATERIAL

FIND: Thunda, Windorah, Qld (25°42'S, 143°3'E), pre 1881: 43.2g slice.

REFERENCES

Dunstan (1913: 178); Liversidge (1886: 73); Hodge-Smith (1939: 25); Prior (1953: 371).

REMARKS

Donated to the Queensland Museum by T.

Davis of London in 1981. Other holdings see Hodge-Smith (1939) and Prior (1953).

REMARKS

Donated by Mr R. Suter, 29.10.1971.

D13519

Gladstone Meteorite #2

D3703

Australite

TYPE

Coarsest octahedrite.

MATERIAL

Sandhills, Bedowric, Qld (25°00'S, 149°03'E): 4.6g.

MATERIAL

FIND: 4.5 miles S. of Gladstone, QLD (23°54'30"S, 151°15'30"E): 1 piece, 17.6kg with cut and polished face; 1 box shavings, approx. 4.7kg.

REMARKS

Donated by Mr R. Suter, 29.10.1991.

REFERENCE

Simmonds (1964: 3-5 pls 1-3).

D3704

Australite

REMARKS

Simmonds (1964) suggested that Gladstone #1 and #2 were part of a multiple fall. The specimens were acquired from the G.S.Q.

MATERIAL

Moorabulla Waterhole, Sandringham, Qld (24°16'S, 140°51'E): 7.9g.

REMARKS

Donated by Mr R. Suter, 29.10.1971.

QUEENSLAND TEKTITES
(AUSTRALITES)

D2078

Australite

D3705

Australite

MATERIAL

Paroo River, Caiwarro, nr Eulo, Qld (28°42'S, 144°47'E): 2.5g, lens shape.

MATERIAL

Georgina River, Glengyle, Qld (24°47'S, 139° 35'E): 5.8g.

REMARKS

Donated by Mr R. Suter, 29.10.1971.

REMARKS

Donated by Mrs E.A. Morley, 14.3.1956. Found in gravel bed of river.

D3706

Australite

D3697, D3698, D3699, D3700

Australites

MATERIAL

Duck Ck Claypan, Bedowrie, Qld (approx. 25°00'S, 149°3'E): 13.3g.

MATERIAL

Pulchra Waterhole, Mulligan River, Qld (23°56'S, 138°38'E): 5.7g, 0.5g (fragment), 6.6g, 1.8g respectively.

REMARKS

Donated by Mr R. Suter, 29.10.1971.

REMARKS

Donated by Mr R. Suter 28.10.1971.

D3707

Australite

D3701, D3702

Australites

MATERIAL

Sandhill, Strathelbiss, Qld (22°48'S, 140°01'E): 10.4g.

MATERIAL

12 Mile Waterhole, Sandringham, Qld (approx. 29°03'S, 139°04'E): 1.8g, 4.3g respectively.

REMARKS

Donated by Mr R. Suter, 29.10.1971.

**D3708, D3709, D3710, D3711, D3712,
D3713, D3714, D3715, D3716, D3717, D3718,
D3719**
Australites

MATERIAL

Durrie Stn, between dune ridges SW Qld (25°57'S, 140°13'E): D3708, 14 round buttons, part flanged: 2.1, 2.8, 1.1, 2.4, 4.1, 2.2, 2.4, 3.5, 2.7, 1.5, 1.7, 1.7, 1.6, 0.6g; D3709, 24 round lenses: 1.1, 1.0, 1.1, 1.0, 1.5, 2.3, 1.9, 1.4, 3.5, 1.5, 1.3, 1.7, 1.9, 1.8, 2.8, 3.2, 3.3, 1.1, 0.9, 1.1, 1.1, 1.0, 1.2, 1.2g; D3710, 12 elongate forms, part flanged: 3.7, 3.0, 3.0, 2.2, 1.7, 1.8, 2.4, 2.3, 1.2, 0.8, 1.3, 1.5g; D3711, 27 cores: 2.8, 6.0, 2.2, 7.6, 7.3, 3.8, 3.5, 2.8, 2.2, 1.9, 5.3, 7.4, 9.1, 8.7, 5.3, 4.6, 3.1, 3.5, 3.9, 5.3, 2.3, 3.0, 2.8, 5.8, 4.6g (1 specimen missing); D3712, 12 flanged fragments: 1.4, 0.7, 0.9, 1.0, 0.8, 0.5, 0.8, 1.6, 1.2, 1.5, 0.5, 0.4g; D3713, 4 elongate tears: 3.5, 3.7, 4.8, 2.0g; D3714, 5 broken cores: 1.8, 3.2, 2.7, 1.9, 1.8g; D3715, 1 blown out lens: 2.1g; D3716, 7 micro forms, part flanged: 0.3, 0.7, 0.6, 0.4, 0.4, 0.3, 0.9g; D3717, 10 forms spalling: 2.2, 1.3, 5.2, 3.3, 2.5, 2.3, 1.9, 4.7, 3.3, 3.1g; D3718, 7 elongate forms: 10.1, 6.2, 10.2, 3.2, 10.7, 1.7, 6.7g; D3719, 12 nondescript forms: 2.3, 0.9, 1.1, 1.2, 1.9, 0.5, 0.6, 0.3, 1.0, 1.9, 1.2, 1.2g.

REMARKS

Donated by Mr G. Hume, 29.10.1971.

D3720
Australites

MATERIAL

Haddon Cnr, SW Qld (26°02'S, 141°01'E): bulk sample - over 317.1g. [A small amount of this material is on loan and was not available for weighing].

REMARKS

Aboriginal artefacts and flakes chipped from Australites from Aboriginal site. Donated by G. Hume, 29.10.1971.

**QUEENSLAND MATERIAL
CASTS**

D3729
"Answer" meteorite

MATERIAL

ORIGINAL FIND: Old Camp, nr Answer Mine, S of Selwyn, Qld, Mr. J. Finch, 16.6.1970.

REFERENCE

Houston (1971:484, pls 2,3).

REMARKS

This cast is in poor condition, damaged and chipped. Houston (1971) stated that the original meteorite was returned to the owner after analysis.

D3730
"King Solomon" meteorite

MATERIAL

ORIGINAL FIND: 100 yards from King Solomon Mine, N of Mary Kathleen, NW Qld.

REFERENCE

Houston (1971:482, pl. 1.).

REMARKS

This specimen is slightly chipped and showing shrinkage cracks. Houston (1971) stated that the original meteorite was returned to the owner after analysis.

D13520, D13549
Gladstone meteorite #2

REMARKS

These casts were taken before sectioning of the original. D13520 is massively damaged on one face; D13549 is in reasonable condition, having only minor damage. D13520 was donated by the G.S.Q. No record of donor of D13549 exists, though it almost certainly from the same source.

D13053
"Siderite"

MATERIAL

ORIGINAL FIND: Rosehill Station, about 1½ mls E of Retreat Hmstd, 3 mls S of Barcoo River, nr Cheviott Range, SW Qld: 2 casts, in good condition.

REMARKS

Original meteorite is recorded as being in the possession of Mr Jaek Arden of "Akary" on Neave River, Charleville. There appear to be no references to this specimen. Considering the proximity of this site to Thunda, it is possible that the Thunda fall was multiple and that this meteorite was part of that fall.

NON- QUEENSLAND MATERIAL
METEORITES**D864**
Gibeon Meteorite

TYPE

Fine octahedrite.

MATERIAL

Find: Amalia Farm, nr Gibcon, SW Africa (25.5°S, 18°E): 1 slice, 818g (10x19x0.5cm).

REFERENCE

Prior (1953:131,132).

REMARKS

Shows Widmanstätten figures, troilite nodules and flow structure.

D2185
Aerolite

TYPE

Chondrite.

MATERIAL

Find: Dimmitt, Texas, U.S.A. (34° 10'N, 102°10'W): 3 slices, 33.5g, 20.7g, 11.1g.

REFERENCE

Prior (1953:104).

REMARKS

Acquired by exchange with H.H. Ninninger, American Meteorite Museum, 23.7.1959.

D2186, D2296
Toluca Meteorite

TYPE

Medium octahedrite.

MATERIAL

Find: Xiquipilco, Mexico (19°34'N, 99°34'W): D2186, 37g; D2296, 385g.

REFERENCE

Prior (1953:374).

REMARKS

Shows schreibersite inclusion and Widmanstätten figures. Sectioned in three directions. D2186 acquired by exchange with H.H. Ninninger, American Meteorite Museum, 23.7.1959.

D2272
Selma Meteorite

TYPE

Olivine - bronzite spherical chondrite.

MATERIAL

Find: Dallas County, Alabama, U.S.A. (32°24'N, 87°0'W): 852.7g.

REFERENCE

Prior (1953:340,341).

REMARKS

Slab section, showing cracking and fracturing, with edges starting to break off main mass. It is recorded that this specimen was obtained from the American Museum of Natural History (AMNH3856) in exchange for one of the Tenham meteorites.

D8550
Meteoric Iron

MATERIAL

Unrecorded: two pieces, 18.7g, 1.6g.

D13040
Henbury Meteorite

TYPE

Medium octahedrite.

MATERIAL

Find: About 100 mls S of Alice Springs on Henbury Station. (24°34'S, 133°10'E): two pieces, 11.0, 5.5g.

REFERENCE

Prior (1953:151,152).

REMARKS

Donated by Mr R.B. Brown.

D1522
Henbury Meteorite #7

TYPE

Medium octahedrite.

MATERIAL

Find: Henbury, Finke River, Central Australia. (24°34'S, 133°10'E): 43.5kg.

REFERENCE

Prior (1953:151,152).

REMARKS

Donated by R. Bedford, Kyancutta.

D1527
Meteorite "Schrapnel"

MATERIAL

Henbury, Central Australia (24°34'S, 133°10'E).

REFERENCE

Prior (1953:151-152).

REMARKS

Seven fragments torn from crater meteorite.

D17060
Metallic Meteorite

MATERIAL

Unknown location: 339.1g.

REMARKS

The specimen shows similar characteristics to other pieces of the Henbury meteorite in our collection and may be from that location. This piece was donated by Mr. F. S. Colliver.

TEKTITES AND AUSTRALITES

D1649
Australites

MATERIAL

Nullabor Plain, W.A.: six specimens.

REMARKS

Collected(?) by Mr A.E. Baker.

D2187
Tektite

MATERIAL

South Vietnam: 13.2g.

REMARKS

Obtained by exchange with H.H. Ninninger, American Meteorite Museum.

D3690
Australite

MATERIAL

Myrtle Springs, nr Maree, South Australia: 15.3g.

REMARKS

Donated by D.F. Roder.

D13041
Australite

MATERIAL

60 miles S.W. of Finke Siding, N.T.: 12.9g.

D13518
Australites

MATERIAL

Boulder, W.A.: five specimens, 6.5, 5.5, 6.1, 5.7, 3.0g.

REMARKS

Three lenses, two elongate.

CASTS

D20
Cowra Siderite

MATERIAL

ORIGINAL FIND: Junction of Burrowa and Lachlan Rivers, Cowra District (Hodge-Smith, 1939).

REMARKS

Obtained through exchange with the Australian Museum, Sydney. Specimen in good condition.

D21
Bingera Siderite (Bingera No. 1)

MATERIAL

ORIGINAL FIND: Bingera, N.S.W.

REMARKS

Obtained through exchange with the Australian Museum, Sydney. Specimen in good condition.

D22
Barraba Siderite (Bingera No. 3)

MATERIAL

FIND: Between Barraba and Bingera, N.S.W.

REMARKS

Obtained through exchange with the Australian Museum, Sydney. The Barraba meteorite is a known synonym of Bingera No. 3 (Hodge-Smith, 1939).

D24

Mt Browne Aerolite

MATERIAL

FALL: 9.30 a.m. 17.07.1902; Mt. Browne, Co. Evelyn, N.S.W.

REMARKS

Obtained through exchange with the Australian Museum, Sydney. Showing significant paint loss on one face; otherwise in good condition.

D133

Roebourne Meteorite

MATERIAL

FIND: Alluvial plains 200 miles S.E. of Roebourne, W.A.

REMARKS

Donated by the West Australian Muscum.

D433

Barratta Aerolite (Barratta No. 1)

MATERIAL

FIND: Barratta Station, via Denilquin, N.S.W.

REMARKS

Obtained through exchange with the Australian Museum, Sydney.

D434

Narraburra Sidcrite

MATERIAL

FIND: Narraburra Ck (= Yeo Yeo Ck) nr Temora, N.S.W.

REMARKS

Obtained through exchange with the Australian Museum, Sydney.

RELATED MATERIAL

D1524

MATERIAL

Outside of west rim of main crater, Henbury, Central Australia. (24°34'S, 133°10'E): five bombs of melted country rock.

REFERENCE

Prior (1953: 151, 152).

REMARKS

Obtained through exchange with the Kyancutta Museum, South Australia.

D1525

MATERIAL

1/2 mile E of Main Crater, Henbury, Central Australia (24°34'S, 133°10'E): silica glass, impregnated with *Fe* and *Ni*.

REFERENCE

Prior (1953: 151, 152).

REMARKS

In drops and coating pebbles. Obtained through exchange with the Kyancutta Museum, South Australia.

D1526

MATERIAL

Henbury, Central Australia. (24°34'S, 133°10'E): six shale balls and associated fragments.

REFERENCE

Prior (1953: 151, 152).

REMARKS

Produced by subsurface weathering of iron fragments.

D2167, D2168, D2181

MATERIAL

Arizona Meteorite Crater, U.S.A. (35°3'N, 111°2'W): meteorite condensation spheroids.

REFERENCE

Prior (1953: 62, 63).

REMARKS

Obtained through exchange with H.H. Ninninger. D2167 and D2181 are each one small bottle of the spheroids. D1268 has some spheroids displayed on a microscope slide against a white background.

D2182, D2183, D2184
Impactite

MATERIAL

Arizona Meteorite Crater, U.S.A. (35°3'N, 111°2'W): three specimens.

REFERENCE

Prior (1953: 62, 63).

REMARKS

Formed from dolomitic, arenaceous, Kaibab limestone.

D13042

MATERIAL

Wabar (or Wabur) Meteor Crater, Rub 'al Khali, Saudi Arabia (21°29'N, 50°40'E): black and white glass, 1.9g.

REFERENCE

Prior (1953: 396).

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